CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.15/NRM/CSR-7/885b/CEMENT/2015-16 Date: 06.07.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. N.R. Mahesh,** No.1201/1, 18th A Main Road, 5th Block, Rajajinagara, Bangalore.
*NAME OF THE WORK	:	Improvements and construction of cc road & drain at Krishne gowda layout sujatha tent parallel road & Sri. Ranga school road in Dasarahalli Ward No.15, BBMP, Bangalore.
*REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 03.07.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	03.07.2015
PERIOD OF TESTING	:	03.07.2015 to 06.07.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

VISHWANATH. I.A.
Chief Executive Officer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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Job No.: CTCE/BBMP/W.No.15/NRM/CSR-7/885b/SAND-Gradation/2014-15 : 06.07.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

* Agency : **Mr. N.R. Mahesh,**
No.1201/1, 18th A Main Road, 5th Block, Rajajinagara, Bangalore.

* Name of Work : Improvements and construction of cc road & drain at Krishne gowda layout sujatha tent parallel road & Sri. Ranga school road in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 03.07.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 03.07.2015

Date of Testing : 06.07.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.50	90-100	90-100	90-100	95-100
2.36	74.50	60-95	75-100	85-100	95-100
1.18	56.30	30-70	55-90	75-100	90-100
600 Micron	32.70	15-34	35-59	60-79	80-100
300 Micron	17.40	5-20	8-30	12-40	15-50
150 Micron	5.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.15/NRM/CSR-7/885b/AGG/GR/2015-16 : 06.07.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N.R. Mahesh,** No.1201/1, 18th A Main Road, 5th Block, Rajajinagara, Bangalore.
* Name of Work	: Improvements and construction of cc road & drain at Krishne gowda layout sujatha tent parallel road & Sri. Ranga school road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 03.07.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 03.07.2015
Date of Testing	: 06.07.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.10	95-100	85-100
20	42.96	30-70	0-20
10	20.60	10-35	0-5
4.75	2.35	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.15/NRM/CSR-7/885b/CC Solid Block/2015-16 : 10.07.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

* Agency : **Mr. N.R. Mahesh,**
No.1201/1, 18th A Main Road, 5th Block, Rajajinagara, Bangalore.

* Name of the Work : Improvements and construction of cc road & drain at Krishne gowda layout sujatha tent parallel road & Sri. Ranga school road in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 03.07.2015

Sample Received on : 03.07.2015

Date of Testing : 10.07.2015

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.52	259.3	3.24	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	35.26	260.1	3.25	
3	Block 3	34.90	261.2	3.27	
4	Block 4	35.20	260.5	3.26	
5	Block 5	36.25	260.8	3.26	
6	Block 6	34.23	259.3	3.24	
7	Block 7	36.30	258.4	3.23	
8	Block 8	36.20	262.5	3.28	

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Job No.: CTCE/BBMP/W.No.15/NRM/CSR-7/885b/Pre Cast Slab/2015-16 27.07.2015

CEMENT CONCRETE CORE (PRE CAST SLAB) TEST REPORT

* Name of Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Mr. N.R. Mahesh,** No.1201/1, 18th A Main Road, 5th Block, Rajajinagara, Bangalore.
* Name of work	:	Improvements and construction of cc road & drain at Krishne gowda layout sujatha tent parallel road & Sri. Ranga school road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 03.07.2015
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Pre cast slab
Sample Received on	:	22.07.2015
Date of Testing	:	27.07.2015

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.395	2514.65	1.60	0.960	32.00	16.30	17.60	16.90	21.12
2	50.00	81.00	0.400	2515.04	1.62	0.965	32.50	16.55	17.88	17.25	21.56
3	50.00	82.00	0.415	2577.53	1.64	0.970	33.00	16.81	18.15	17.61	22.01

* Information is furnished by the Customer/Representative

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